

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-9 (canceled).

Claim 10 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

~~secondary~~ permanent magnets embedded in the rotor yoke, each said magnet having a linear shape and provided symmetrically about a line that connects two magnetic poles, wherein the ~~secondary~~ permanent magnets have lengths which are radially disposed, and wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent ~~magnet~~ magnets does not pass through the rotating shaft.

Claim 11 (currently amended) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- ~~a permanent magnet embedded in the rotor yoke which does not have a length radially~~
~~disposed; and~~

secondary permanent magnets embedded in the rotor yoke, each said magnet having a linear shape and provided symmetrically about a line that connects two magnetic poles, wherein the secondary permanent magnets have lengths which are radially disposed, and wherein the secondary permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent ~~magnet~~ magnets bypasses the rotating shaft.

Claim 12 (currently amended) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- ~~a permanent magnet embedded in the rotor yoke which does not have a length radially~~
~~disposed; and~~

secondary permanent magnets embedded in the rotor yoke, each said magnet having a

linear shape provided symmetrically about a line that connects two magnetic poles, wherein the ~~secondary~~ permanent magnets have lengths which are radially disposed, and wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent ~~magnet~~ magnets passes through only the rotor yoke, excluding the rotating shaft.

Claims 13-15 (canceled).

Claim 16 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

~~secondary~~ permanent magnets embedded in the rotor yoke, each said magnet having an arcuate shape curving around the rotating shaft and provided symmetrically about a line that connects two magnetic poles,

wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft, and

wherein a magnetic field produced by the permanent ~~magnet~~ magnets does not pass

through the rotating shaft.

Claim 17 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

~~secondary~~ permanent magnets each having an arcuate shape curving around the rotating shaft and provided symmetrically about a line that connects two magnetic poles,

wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft, and

wherein a magnetic field produced by the permanent ~~magnet~~ magnets bypasses the rotating shaft.

Claim 18 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially~~

~~disposed;~~ and

secondary permanent magnets embedded in the rotor yoke, each said magnet having an arcuate shape curving around the rotating shaft provided symmetrically about a line that connects two magnetic poles,

wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,
and

wherein a magnetic field produced by the permanent ~~magnet~~ magnets passes through only the rotor yoke, excluding the rotating shaft.